PATENT COOPERATION TREATY

INTERNATIONAL SEARCHING AUTHORIT	Υ			
To: JACQUELINE M. ARENDT ARENDT & ASSOCIATES INTELLECTUAL PROPERTY			PCT	
GROUP 1740 MASSACHUSETTS AVENUE BOXBOROUGH, MA 01719-2209			ITTEN OPINION OF THE DNAL SEARCHING AUTHORITY	
			(PCT Rule 43bis.1)	
		Date of mailing (day/month/year)	09 JUN 2009	
Applicant's or agent's file reference		FOR FURTHER	ACTION See paragraph 2 below	
BLP-208PCT				
International application No. Inte	rnational filing date ((day/month/year)	Priority date (day/month/year)	
PCT/US05/00603 09 J	January 2005 (09.01.2	2005)	10 January 2004 (10.01.2004)	
International Patent Classification (IPC) or bot	h national classificati	on and IPC		
IPC(7): A61K 9/06, 7/00 and US Cl.: 424/401,	427; 514/969			
Applicant				
BIOLIPID, INC.				
1. This opinion contains indications relating t	to the following items	s:		
Box No. I Basis of the opini	ion		•	
Box No. II Priority				
Box No. III Non-establishmet	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability			
Box No. IV Lack of unity of i	Lack of unity of invention			
	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
Box No. VI Certain document	ts cited			
Box No. VII Certain defects in	Box No. VII Certain defects in the international application			
Box No. VIII Certain observation	ons on the internation	nal application	-	
2. FURTHER ACTION				•
If a demand for international preliminary International Preliminary Examining Aut	thority ("IPEA") exc EA and the chosen I	cept that this does PEA has notified the	be considered to be a written opinion of the not apply where the applicant chooses an e International Bureau under Rule 66.1bis(b) red.	
IPEA a written reply together, where approf Form PCT/ISA/220 or before the expiration	opriate, with amendn tion of 22 months fro	nents, before the exp	EA, the applicant is invited to submit to the biration of 3 months from the date of mailing whichever expires later.	
For further options, see Form PCT/ISA/220.				
3. For further details, see notes to Form PCT/ISA/220.				
Name and mailing address of the ISA/ US		Authorized officer	O Die Die	
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Form PCT/ISA/237 (cover sheet) (January 2004)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

Interr	national	applie	cation	No.

PCT/US05/00603

Box No	o. I Basis of this opinion
1. With a	regard to the language, this opinion has been established on the basis of the international application in the language in which it led, unless otherwise indicated under this item.
	This opinion has been established on the basis of a translation from the original language into the following language which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With i	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed tion, this opinion has been established on the basis of:
a.	type of material
	a sequence listing
	table(s) related to the sequence listing
b.	format of material
	in written format
	in computer readable form
c.	time of filing/furnishing
	contained in international application as filed.
	filed together with the international application in computer readable form.
	furnished subsequently to this Authority for the purposes of search.
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additi	onal comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

international	application	No.	

PCT/US05/00603

Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
1. The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non-obvious), or to be industrially applicable have not been examined in respect of:				
	the entire international application			
\square	claims Nos. 28 and 31-33			
K-N	Ciamis 1405. <u>20 and 51 55</u>			
becau	se:			
	the said international application, or the san international preliminary examination	aid claim Nos relate to the following subject matter which does not require (specify):		
	,			
\boxtimes	meaningful opinion could be formed (sp.	· · · · · · · · · · · · · · · · · · ·		
	Claims 28 and 31-33 are multip	ole dependent claims depending from multiple dependent claims 22-25.		
		•		
	the claims, or said claims Nos are formed.	so inadequately supported by the description that no meaningful opinion could be		
	no international search report has been ex	stablished for said claims Nos		
	the nucleotide and/or amino acid seque Administrative Instructions in that:	ence listing does not comply with the standard provided for in Annex C of the		
	the written form	has not been furnished		
		does not comply with the standard		
	the computer readable form	has not been furnished		
		does not comply with the standard		
	the tables related to the nucleotide and/or the technical requirements provided for i	amino acid sequence listing, if in computer readable form only, do not comply with n Annex C-bis of the Administrative Instructions.		
	See Supplemental Box for further details.			

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US05/00603

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Claims 2, 4, 15-21, 23-27, 29-30, 34-36 and 38	YES
Claims 1, 3, 5-8, 13, 14, 22 and 37	NO
CL ' NONE	YES
Claims NONE	
Claims 1-27, 29-30 and 34-38	NО
Claims 1.27. 20.30 and 34.38	YES
Claims NONE	NO
	Claims 1, 3, 5-8, 13, 14, 22 and 37 Claims NONE Claims 1-27, 29-30 and 34-38 Claims 1-27, 29-30 and 34-38

2. Citations and explanations:

Claims 1, 3, 5-8, 13-4 and 22-23 lack novelty under PCT Article 33(2) as being anticipated by MAUSNER (US 5,571,503).

MAUSNER teaches eye compositions containing C13-14 isoparaffins, mineral oil, squaline, phospholipids, fatty acid esters, cholesteryl behenate, glycerol and medium chain triglycerides (col. 2, line 45 through col. 7, line 5, col. 9, line 33, Tables and claims).

Claim 37 lacks novelty under PCT Article 33(2) as being anticipated by KAUFMAN (US 4,923,699).

KAUFMAN discloses a method of treating dry eye using ointments containing polar lipid, lecithin and non-polar lipid,

cholesterol (abstract, col. 5, lines 33-36, col. 10, lines 60-68, col. 17, line 3 and claim 22).

Claims 2, 4, 9-10, 15, 17-21 and 34-38 an inventive step under PCT Article 33(3) as being obvious over MAUSNER cited above.

As pointed out above, MAUSNER teaches eye compositions containing C13-14 isoparaffins, mineral oil, squaline, phospholipids, fatty acid esters, cholesteryl behenate, glycerol and medium chain triglycerides (col. 2, line 45 through col. 7, line 5, col.

phospholipids, fatty acid esters, cholesteryl behenate, glycerol and medium chain triglycerides (col. 2, line 45 through col. 7, line 5, col. 9, line 33, Tables and claims). The amounts of the components in MAUSNER appear to differ from instant amounts. For example, the amounts of phospholipids taught by MAUSNER are up to 1 % and not instantly claimed 2 to 10 %. However, in the absence of showing unexpected results it is deemed obvious to one of ordinary skill in the art to vary the amounts of the components of MAUSNER to obtain the best possible results. MAUSNER also does not teach the composition in an ointment form without water. However, it is evident from MAUSNER's tables, water is added to dissolve the water soluble components such as plant extracts and it would have been obvious to one of ordinary skill in the art to prepare a composition in the ointment form if the water soluble components are not necessary. MAUSNER also does not teach instantly claimed mode of administration. In the absence of showing unexpected results, the mode of administration is deemed to be the choice of the artisan.

Claims 11, 12, 16, 22-31 lack an inventive step under PCT Article 33(3) as being obvious over the prior art as applied in the immediately preceding paragraph and further in view of KORB et al.

MAUSNER does not teach the inclusion of beeswax in the compositions. Such an inclusion however, would have been obvious to one of ordinary skill in the art since the reference of KORB shows that beeswax is routinely used in combination with hydrocarbon oils for the treatment of dry eye conditions (see abstract, col. 3, lines 15-23, col. 4, lines 6-42, col. 5, lines 7-48 and Examples 45-48).

Claims 27 and 37 lack an inventive step under PCT Article 33(3) as being obvious over MAUSNER in view of KAUFMAN (US 4,923,699) cited above.

What is also lacking in MAUSNER is the teaching of the inclusion of drugs such as cyclosporin.

KAUFMAN while disclosing ophthalmic ointments for dry eye treatment teaches the inclusion of immunosuppressants such as cyclosporin. The compositions further include polar lipid, lecithin and non-polar lipid, cholesterol (abstract, col. 5, lines 33-36, col. 10, lines 60-68, col. 17, line 3 and claim 22). The inclusion of cyclosporin would have been obvious to one of ordinary skill in the art since such an inclusion would provide an immunosuppressant action if needed.

Claims 1-27, 29-30 and 34-38 meet the criteria set out in PCT Article 33(4), and thus meet industrial applicability because the subject matter claimed can be made or used in industry.